## BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

Estimate Cost Rs. 3000000.00

of Work: Asphalting to road from BBMP revenue office towards Down bazar road upto Ward no-01 Kempegowda of Yelahanka sub division

| | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specification No.301 Page No.143 Item No.19.14 | cum | | | | | | | |
| . | for road | | | | | | | | |
| | bad reaches Down bazar road | | 1 | 3.50 | 2.00 | 0.30 | 2.10 | | |
| | | | 1 | 4.00 | 2.00 | 0.30 | 2.40 | | |
| | | | 1 | 3.20 | 1.50 | 0.30 | 1.44 | | |
| | | | 1 | 3.80 | 1.50 | 0.30 | 1.71 | | |
| | | | 1 | 9.00 | 5.00 | 0.30 | 13.50 | | |
| | | | 1 | 3.80 | 2.90 | 0.30 | 3.31 | | |
| | | | 1 | 15.00 | 1.20 | 0.30 | 5.40 | | |
| | | | 1 | 9.00 | 2.20 | 0.30 | 5.94 | | |
| | | | 1 | 15.00 | 1.80 | 0.30 | 8.10 | | |
| | | | 1 | 8.00 | 5.00 | 0.30 | 12.00 | | |
| | | | 1 | 9.00 | 3.20 | 0.30 | 8.64 | | |
| | | | 1 | 6.00 | 3.80 | 0.30 | 6.84 | | |
| | | | 1 | 8.00 | 4.20 | 0.30 | 10.08 | | |
| . | | | 1 | 16.00 | 1.50 | 0.30 | 7.20 | | |
| | | | | | | | **88.66** | **125.59** | **11134.20** |
| | Basic Rate | 41.00 | | | | | | | |
| | Area Weightage 6% | 2.46 | | | | | | | |
| | **Grand Total** | 43.46 | | | | | | | |
| | Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57 | 77.48 | | | | | | | |
| | Area Weightage 6% | 4.65 | | | | | | | |
| | | **125.59** | | | | | | | |

| | scription of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | B M300-19. Removal of viceable soil including vation, loading and osal but excluding lacement by suitable soil ich shall be paid separately s per clause 300.5 complete s per sepecification .MORTH Specification NO.301KBS Page No.144 Item No.19.2 | cum | | | | | | | |
| | **Desilting of existing drains** | | | | | | | | |
| | Down bazar road | | 2 | 355.00 | 0.60 | 0.45 | 191.70 | | |
| | | | | | | | **191.70** | **36.04** | **6908.87** |
| | Basic Rate | 34.00 | | | | | | | |
| | Area Weightage 6% | 2.04 | | | | | | | |
| | **Grand Total** | 36.04 | | | | | | | |
| 7 | **Removing & Refixing of stone slabs of drains and pointing in C.M (1:3) page no-27. I. no-5.33** | **Sqm** | | | | | | | |
| | Down bazar road | | 2 | 355.00 | 0.90 | | 639.00 | | |
| | | | | | | | 639.00 | | |
| | **90% available** | | | | | | 575.10 | | |
| | | | | | | | **575.10** | **111.30** | **64008.63** |
| | **Basic Rate** | **105.00** | | | | | | | |
| | Area Weightage 6% | 6.30 | | | | | | | |
| | **Grand Total** | 111.30 | | | | | | | |
| 8 | **Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and** Finishing cutting , including form work, cost of alll materials, labour,hire charges of chinery,loading ,unloading ,lead and lift, transportation etc ,copmplete. (Data Rate) | **Sqm** | | | | | | | |
| | missing slabs | | | | | | | | |
| | Down bazar road | | 2 | 355.00 | 0.90 | | 639.00 | | |
| | | | | | | | **639.00** | | |
| | consider 10% of missing slabs | | | | | | **63.90** | | |
| | | | | | | | **63.90** | **2337.00** | **149334.30** |
| | **Date Rate** | **2337.00** | | | | | | | |

| | scription of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | **ruction of granular ase Grading-V as Sub- and drainage layer by viding** coarse graded shed stone aggregates of nite/trap/basalt material, xing by mix in place method yrotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. Page No.153. Item No.20.6 | **cum** | | | | | | | |
| | bad reaches Down bazar road | | 1 | 3.50 | 2.00 | 0.15 | 1.05 | | |
| | | | 1 | 4.00 | 2.00 | 0.15 | 1.20 | | |
| | | | 1 | 3.20 | 1.50 | 0.15 | 0.72 | | |
| | | | 1 | 3.80 | 1.50 | 0.15 | 0.86 | | |
| | | | 1 | 9.00 | 5.00 | 0.15 | 6.75 | | |
| | | | 1 | 3.80 | 2.90 | 0.15 | 1.65 | | |
| | | | 1 | 15.00 | 1.20 | 0.15 | 2.70 | | |
| | | | 1 | 9.00 | 2.20 | 0.15 | 2.97 | | |
| | | | 1 | 15.00 | 1.80 | 0.15 | 4.05 | | |
| | | | 1 | 8.00 | 5.00 | 0.15 | 6.00 | | |
| | | | 1 | 9.00 | 3.20 | 0.15 | 4.32 | | |
| | | | 1 | 6.00 | 3.80 | 0.15 | 3.42 | | |
| | | | 1 | 8.00 | 4.20 | 0.15 | 5.04 | | |
| | | | 1 | 16.00 | 1.50 | 0.15 | 3.60 | | |
| | | | | | | | **44.33** | **1855.00** | **82228.44** |
| | Basic Rate | 1750.00 | | | | | | | |
| | Area Weightage 6% | 105.00 | | | | | | | |
| | **Grand Total** | 1855.00 | | | | | | | |

| | scription of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | M400-17. **Providing, spreading and acting crushed stone egates of granite / trap / alt to wet mix macadam** cifications including pre king the material with water at MC in mechanical mix plant arriage of mixed materials by ipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406. Page No. 155. Item No.20.18 | **cum** | | | | | | | |
| | bad reaches Down bazar road | | 1 | 3.50 | 2.00 | 0.15 | 1.05 | | |
| | | | 1 | 4.00 | 2.00 | 0.15 | 1.20 | | |
| | | | 1 | 3.20 | 1.50 | 0.15 | 0.72 | | |
| | | | 1 | 3.80 | 1.50 | 0.15 | 0.86 | | |
| | | | 1 | 9.00 | 5.00 | 0.15 | 6.75 | | |
| | | | 1 | 3.80 | 2.90 | 0.15 | 1.65 | | |
| | | | 1 | 15.00 | 1.20 | 0.15 | 2.70 | | |
| | | | 1 | 9.00 | 2.20 | 0.15 | 2.97 | | |
| | | | 1 | 15.00 | 1.80 | 0.15 | 4.05 | | |
| | | | 1 | 8.00 | 5.00 | 0.15 | 6.00 | | |
| | | | 1 | 9.00 | 3.20 | 0.15 | 4.32 | | |
| | | | 1 | 6.00 | 3.80 | 0.15 | 3.42 | | |
| | | | 1 | 8.00 | 4.20 | 0.15 | 5.04 | | |
| | | | 1 | 16.00 | 1.50 | 0.15 | 3.60 | | |
| | | | | | | | **44.33** | **2001.28** | **88712.74** |
| | Basic Rate | 1888.00 | | | | | | | |
| | Area Weightage 6% | 113.28 | | | | | | | |
| | **Grand Total** | 2001.28 | | | | | | | |
| 17 | **KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion** on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6) | **sqm** | | | | | | | |

| | escription of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | reaches Down bazar | | 1 | 3.50 | 2.00 | | 7.00 | | |
| | | | 1 | 4.00 | 2.00 | | 8.00 | | |
| | | | 1 | 3.20 | 1.50 | | 4.80 | | |
| | | | 1 | 3.80 | 1.50 | | 5.70 | | |
| | | | 1 | 9.00 | 5.00 | | 45.00 | | |
| | | | 1 | 3.80 | 2.90 | | 11.02 | | |
| | | | 1 | 15.00 | 1.20 | | 18.00 | | |
| | | | 1 | 9.00 | 2.20 | | 19.80 | | |
| | | | 1 | 15.00 | 1.80 | | 27.00 | | |
| | | | 1 | 8.00 | 5.00 | | 40.00 | | |
| | | | 1 | 9.00 | 3.20 | | 28.80 | | |
| | | | 1 | 6.00 | 3.80 | | 22.80 | | |
| | | | 1 | 8.00 | 4.20 | | 33.60 | | |
| | | | 1 | 16.00 | 1.50 | | 24.00 | | |
| | | | | | | | **295.52** | 28.62 | **8457.78** |
| | Basic Rate | 27.00 | | | | | | | |
| | Area Weightage 6% | 1.62 | | | | | | | |
| | **Grand Total** | 28.62 | | | | | | | |
| 18 | KSRRB 500-2. **Cleaning the existing black topped surface with brooms, soft brushes and finally** dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 Page No.158. Item No.21.2 | **Sqm** | | | | | | | |
| | Down bazar road | | 1 | 355.00 | 9.00 | | 3195.00 | | |
| | | | | | | | **3195.00** | **5.30** | **16933.50** |
| | Basic Rate | 5.00 | | | | | | | |
| | Area Weightage 6% | 0.30 | | | | | | | |
| | **Grand Total** | 5.30 | | | | | | | |

| | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | **RB M500-17. Providing laying Dense Graded uminous Macadam using ushed aggregates of pecified grading,** premixed ith VG30 grade bituminous inder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen. Page No.160. Item No.21.17 2 | **Cum** | | | | | | | |
| | DBM | | | | | | | | |
| | Down bazar road | | 1 | 355.00 | 9.00 | 0.05 | 159.75 | | |
| | | | | | | | 159.75 | | |
| | | | | | | | **159.75** | **6789.30** | **1084590.68** |
| | Basic Rate | 6405.00 | | | | | | | |
| | Area Weightage 6% | 384.30 | | | | | | | |
| | **Grand Total** | 6789.30 | | | | | | | |
| 20 | KSRRB 500-7. **Providing and applying tack coat using 80/100 grade bitumen (VG10) on the** prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface ) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No.158. Item No.21.7 | **Sqm** | | | | | | | |
| | | | | | | | | | |
| | Down bazar road | | 1 | 355.00 | 9.00 | | 3195.00 | | |
| | | | | | | | **3195.00** | **12.72** | **40640.40** |
| | Basic Rate | 12.00 | | | | | | | |
| | Area Weightage 6% | 0.72 | | | | | | | |
| | **Grand Total** | 12.72 | | | | | | | |

| | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | **ding and laying minous concrete 40mm k with hot mix plant, ing crushed aggregates of ecified grading, premixed ith bituminous binder and ller, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP- 53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade} and 0.43% of plastomeric thermoplastics (waste plastic) Page No. 171. Item No.21.78.12** | **Cum** | | | | | | | |
| | BC | | | | | | | | |
| | Down bazar road | | 1 | 355.00 | 9.00 | 0.04 | 127.80 | | |
| | | | | | | | **127.80** | **7753.90** | **990948.42** |
| | Basic Rate | 7315.00 | | | | | | | |
| | Area Weightage 6% | 438.90 | | | | | | | |
| | **Grand Total** | 7753.90 | | | | | | | |
| 22 | **Providing and fixing of retro - reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of high intensity grade sheeting vide Clause** 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 em x 45 cm x 60 em, 60 cm below ground level as per approved drawing Page No.180. Item No.24.2 | **Nos** | | | | | | | |
| | Down bazar road | | 2 | 178.00 | | | 356.00 | | |

| | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 356.00 | 137.80 | 49056.80 |
| | Basic Rate | 130.00 | | | | | | | |
| | Area Weightage 6% | 7.80 | | | | | | | |
| | **Grand Total** | 137.80 | | | | | | | |
| | **SRRB M800-4. Direction and Place Identification Signs / Project information Board with size more than 0.9 sqm Size Board:-Providing** and erecting direction and place identification retro- reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Page No.180. Item No.24.4 | Sqm | | | | | | | |
| | | | 2 | | | | 2.00 | | |
| | | | | | | | **2.00** | **7567.34** | **15134.68** |
| | Basic Rate | 7139.00 | | | | | | | |
| | Area Weightage 6% | 428.34 | | | | | | | |
| | **Grand Total** | 7567.34 | | | | | | | |
| 24 | **KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:-** Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No.182. Item No.24.15 | Sqm | | | | | | | |

| Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|
| m bazar road | | 1 | 237.00 | 0.10 | | 23.70 | | |
| | | 2 | 355.00 | 0.15 | | 106.50 | | |
| | | | | | | 130.20 | 454.74 | 59207.15 |
| Basic Rate | 429.00 | | | | | | | |
| Area Weightage 6% | 25.74 | | | | | | | |
| **Grand Total** | 454.74 | | | | | | | |
| | | | | Total construction cost | | | | 2667296.58 |
| | | | | GST 12% | | | | 320075.59 |
| Miscellaneous charges | | | | | | | | 12627.83 |
| | | | | | | | Total | 3000000.00 |
| (Rupees thirty lakh Only) | | | | | | | | |

**CERTIFICATE**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Yelahanka Division
Bangalore-64

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

**Administrative Approval**

Accorded For Rs.30.00lakh
Head of A/C P-3726
CER NO :245 Dt:24.03.2020

TA CE (YNK)

**Technical Sanction**

Accorded For Rs.30.00lakh
Head of A/C P-3726
CER NO :357 Dt:27.03.2020

TA CE (YNK)

150 - YELAHANKA AC

# BRUHAT BANGALORE MAHANAGAR PALIKE
## WARD: 1- KEMPEGOWDA WARD

NOTIFICATION NO. UDD 59 MLR 2009. DATE. 15.07.09